



DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY
AFFAIRS (PERA)
BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599
www.miamidade.gov/pera

T.M. Windows LLC
601 N.W. 12th Ave.
Pompano Beach, FL 33609

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Series "515" Outswing Aluminum Casement Window - L.M.I.

APPROVAL DOCUMENT: Drawing No. **W06-30**, titled "Series 515 Aluminum Casement Window (L.M.I.)", sheets 1 through 6 of 6, dated 04/14/06, with revision D dated 02/23/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E., bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises NOA # **09-1015.02** and consists of this page 1 and evidence pages E-1 and E-2, as well as approval document mentioned above.

The submitted documentation was reviewed by **Manuel Perez, P.E.**



MP
5/9/12

NOA No. 12-0309,04
Expiration Date: May 01, 2013
Approval Date: May 17, 2012
Page 1


NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Manufacturer's die drawings and sections.
2. Drawing No **W06-30**, Sheets 1 through 6 of 6, titled "Series 515 Aluminum Casement Window (L.M.I.)", dated 04/14/06, with revision D dated 02/23/12, prepared by Al-Farooq Corporation, signed and sealed by Javad Ahmad, P.E.

B. TESTS

1. Test reports on: 1) Air Infiltration Test, per FBC, TAS 202-94
2) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
3) Water Resistance Test, per FBC, TAS 202-94
4) Large Missile Impact Test per FBC, TAS 201-94
5) Cyclic Wind Pressure Loading per FBC, TAS 203-94
6) Forced Entry Test, per FBC 2411 3.2.1, TAS 202-94
along with marked-up drawings and installation diagram of a series 515 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-5404**, dated 11/16/07, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under NOA# 08-0506.11)
2. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 515 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4891**, dated 04/13/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA# 06-0614.03)
3. Test reports on: 1) Large Missile Impact Test per FBC, TAS 201-94
2) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with marked-up drawings and installation diagram of a series 515 outswing aluminum casement window, prepared by Fenestration Testing Laboratory, Inc., Test Report No. **FTL-4890**, dated 04/13/06, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under NOA# 06-0614.03)
4. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC, TAS 20294
2) Large Missile Impact Test per FBC, TAS 201-94
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94
along with installation diagram of an aluminum casement window, prepared by American Test Lab of South Florida, Test Report No. **ATL 0806.01-02** dated 09/24/02, signed and sealed by William R. Mehner, P.E.
(Submitted under NOA# 01-1129.03)


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0309.04
Expiration Date: May 01, 2013
Approval Date: May 17, 2012

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C. CALCULATIONS

1. Anchor verification calculations and structural analysis, complying with FBC-2007, prepared by Al-Farooq Corporation, dated 8/26/09, signed and sealed by Arshad Vigar, P.E.
(Submitted under previous NOA#09-1015.02)
2. Glazing complies with ASTM E1300-04

D. QUALITY ASSURANCE

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

E. MATERIAL CERTIFICATIONS


1. Notice of Acceptance No. **11-0325.05** issued to **Solutia, Inc.** for their "**Saflex and Vanceva clear and color interlayers**" dated 05/05/11, expiring on 05/21/16
2. Notice of Acceptance No. **07-1116.11** issued to **Saf-Glas, LLC** for their "**SAF-GLAS Polycarbonate Laminate**", dated 12/27/07, expiring on 12/16/12.
3. Notice of Acceptance No. **10-0331.02** issued to **Cytec Industries, Inc.** for their "**Uvekool S Laminated Glass Interlayer**", dated 05/05/10, expiring on 02/08/14.

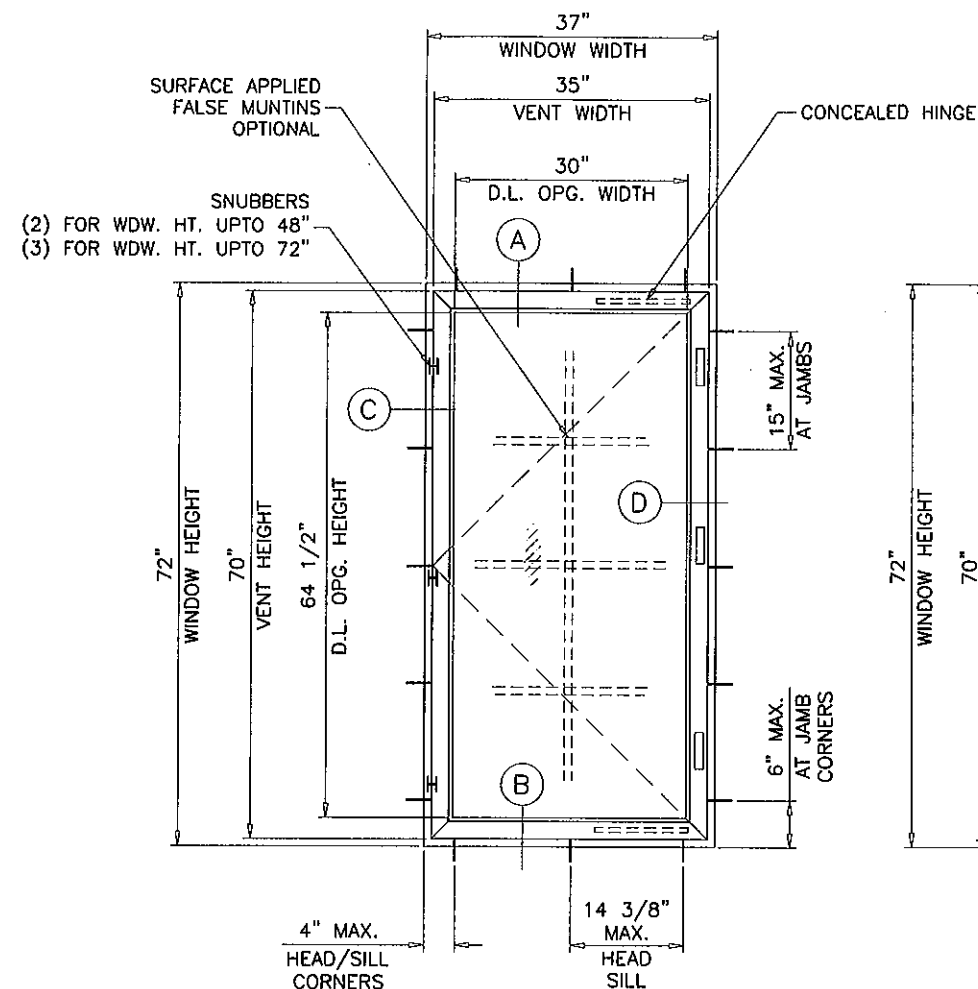
F. STATEMENTS

1. Statement letter of conformance, complying with FBC-2010, and of no financial interest, dated February 22, 2012, signed and sealed by Javad Ahmad, P.E.
2. Laboratory compliance letter for Test Report no. **FTL-4891**, issued by Fenestration Testing Laboratory, Inc., dated April 17, 2006, signed and sealed by Edmundo Largaespada, P.E.
(Submitted under previous NOA#09-1015.02)
3. Laboratory compliance letter for Test Report no. **FTL-5404**, issued by Fenestration Testing Laboratory, Inc., dated December 19, 2007, signed and sealed by Carlos S. Rionda, P.E.
(Submitted under previous NOA#09-1015.02)

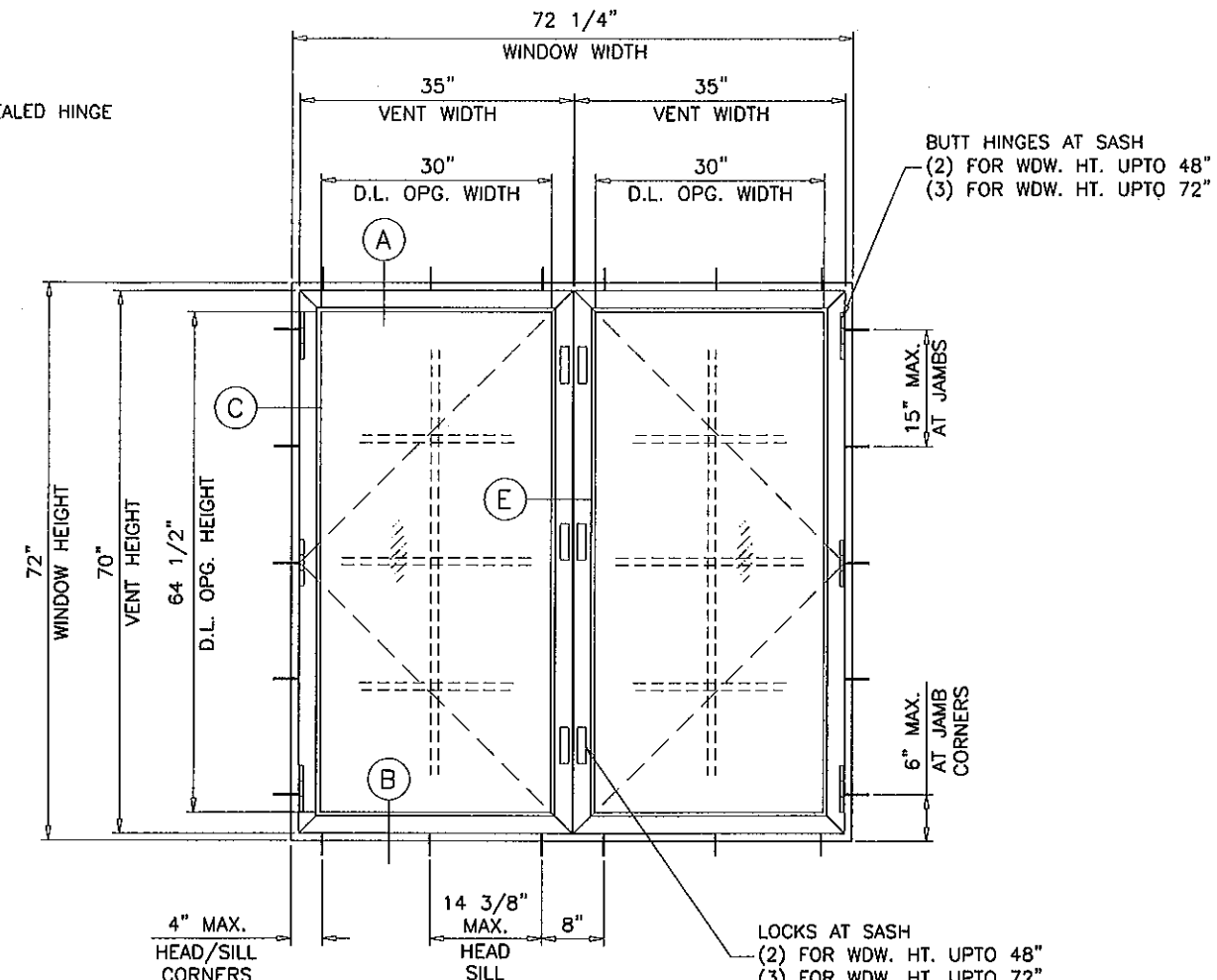
G. OTHERS

1. Notice of Acceptance No. **09-1015.02**, issued to T.M. Window & Door LLC for their Series 515 Outswing Aluminum Casement Window – L.M.I., approved on 01/27/10 and expiring on 05/01/13.


Manuel Perez, P.E.
Product Control Examiner
NOA No. 12-0309.04
Expiration Date: May 01, 2013
Approval Date: May 17, 2012



SINGLE VENT WDW.



DUAL VENT WDW.

THESE WINDOWS ARE RATED FOR LARGE & SMALL MISSILE IMPACT. SHUTTERS ARE NOT REQUIRED.

SERIES 515 ALUMINUM CASEMENT WINDOW

DESIGN LOAD RATINGS FOR THESE WINDOWS TO BE AS PER CHARTS SHOWN ON SHEET 2.

APPROVAL APPLIES TO SINGLE CASEMENT WINDOWS, ALSO COMBINATIONS OF CASMT/CASMT OR CASMT WITH OTHER WINDOW TYPES IN MODULES OF TWO OR MORE WINDOWS USING MIAMI-DADE COUNTY APPROVED MULLIONS IN BETWEEN. LOWER DESIGN PRESSURE FROM WINDOWS OR MULLION APPROVAL WILL APPLY TO ENTIRE SYSTEM.

THIS PRODUCT HAS BEEN DESIGNED AND TESTED TO COMPLY WITH THE REQUIREMENTS OF THE FLORIDA BUILDING CODE INCLUDING HIGH VELOCITY HURRICANE ZONE (HVHZ).

WOOD BUCKS BY OTHERS, MUST BE ANCHORED PROPERLY TO TRANSFER LOADS TO THE STRUCTURE.

ANCHORS SHALL BE AS LISTED, SPACED AS SHOWN ON DETAILS, ANCHORS EMBEDMENT TO BASE MATERIAL SHALL BE BEYOND WALL DRESSING OR STUCCO.

ANCHORING OR LOADING CONDITIONS NOT SHOWN IN THESE DETAILS ARE NOT PART OF THIS APPROVAL.

A LOAD DURATION INCREASE IS USED IN DESIGN OF ANCHORS INTO WOOD ONLY.

MATERIALS INCLUDING BUT NOT LIMITED TO STEEL/METAL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF THE FLORIDA BLDG. CODE SECTION 2003.8.4.

D.L. OPENINGS

DLO HT. = WDW. HT - 7.5"

DLO W. (SINGLE VENT) = WDW. W - 7"

DLO W. (DUAL VENT) = WDW. W/2 - 6.125"

**LAMINATED GLASS
LARGE MISSILE IMPACT**

Engr: JAVAD AHMAD
CIVIL
FLA. PE. # 70592
C.A.N. 3538
APR 18 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0309.04
Expiration Date MAY 1, 2013
By *Mauro Pirelli*
Miami Dade Product Control

SERIES 515 ALUMINUM CASEMENT WINDOW (L.M.I.)

T.M. WINDOWS LLC.
601 N.W. 12TH AVE.
POMPANO BEACH, FL. 33069
TEL. (954) 781-4430 FAX. (954) 781-5078

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 264-8100 FAX. (305) 262-6978
COMP-ANL W06-30TMMW

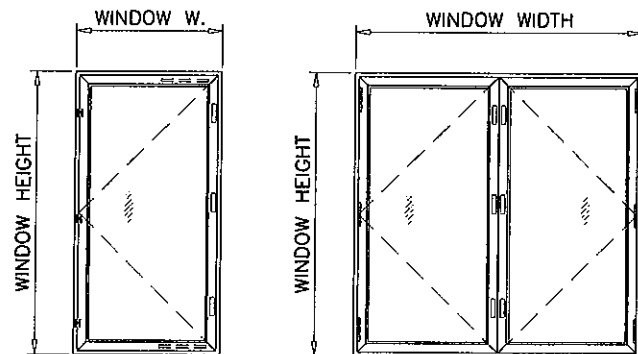
Revisions:		no	date	by	description
A	10.11.06	REV. PER BCCO COMMENTS			
B	01.11.08	GLASS & HARDWARE OPTIONS ADD.			
C	08.27.09	UPDATED FOR 2007 FBC			
D	02.23.12	UPDATED TO 2010 FBC			

date:	04-14-06
scale:	1/2" = 1"
dr. by:	HAMID
chk. by:	

drawing no.	W06-30
sheet	1 of 6

DESIGN LOAD CAPACITY - PSF FOR (X) SIZES					
WINDOW DIMS.		GLASS TYPE 'C'		GLASS TYPES 'B', 'D' & 'E'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
19-1/8"	26" (2)	62.0	62.0	80.0	80.0
26-1/2"		62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
19-1/8"	38-3/8" (3)	62.0	62.0	80.0	80.0
26-1/2"		62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
19-1/8"	50-5/8" (4)	62.0	62.0	80.0	80.0
26-1/2"		62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
19-1/8"	63" (5)	62.0	62.0	80.0	80.0
26-1/2"		62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
19-1/8"	74-1/4" (6)	62.0	62.0	80.0	80.0
26-1/2"		62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
30"	74-1/4"(6)	62.0	62.0	80.0	80.0
18"	24" (2)	62.0	62.0	80.0	80.0
24"		62.0	62.0	80.0	80.0
30"		62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
18"	36" (3)	62.0	62.0	80.0	80.0
24"		62.0	62.0	80.0	80.0
30"		62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
18"	48" (4)	62.0	62.0	80.0	80.0
24"		62.0	62.0	80.0	80.0
30"		62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
18"	60" (5)	62.0	62.0	80.0	80.0
24"		62.0	62.0	80.0	80.0
30"		62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
18"	63" (5)	62.0	62.0	80.0	80.0
24"		62.0	62.0	80.0	80.0
30"		62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
18"	72" (6)	62.0	62.0	80.0	80.0
24"		62.0	62.0	80.0	80.0
30"		62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
37"	72" (6)	62.0	62.0	80.0	80.0

() = NO. OF ANCHORS PER JAMB

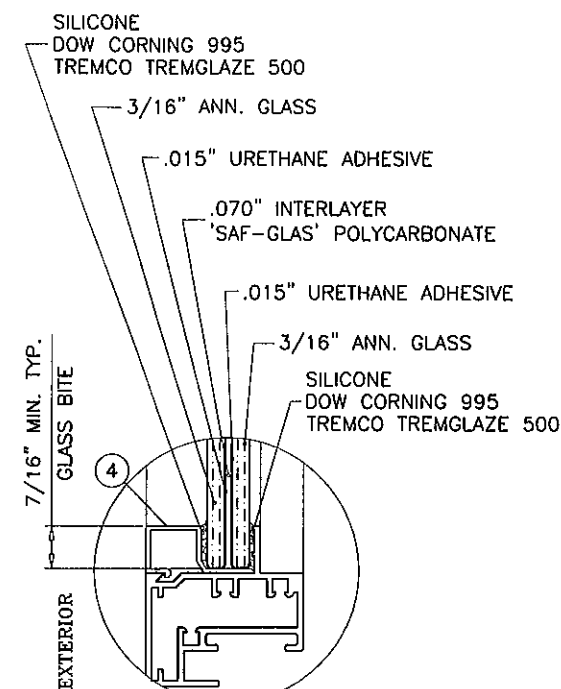


X
APPROVED CONFIGURATIONS
XX

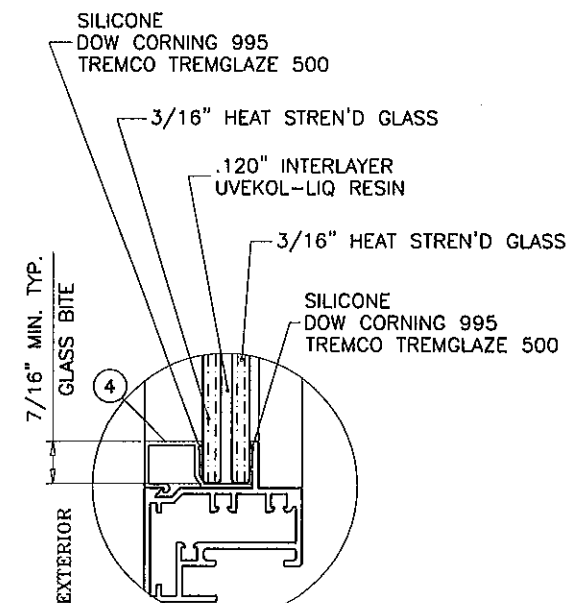
DESIGN LOAD CAPACITY - PSF FOR (XX) SIZES					
WINDOW DIMS.		GLASS TYPE 'C'		GLASS TYPES 'B', 'D' & 'E'	
WIDTH	HEIGHT	EXT.(+)	INT.(-)	EXT.(+)	INT.(-)
26-1/2"	26" (2)	62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
53-1/8"		62.0	62.0	80.0	80.0
74"		62.0	62.0	80.0	80.0
26-1/2"	38-3/8" (3)	62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
53-1/8"		62.0	62.0	80.0	80.0
74"		62.0	62.0	80.0	80.0
26-1/2"	50-5/8" (4)	62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
53-1/8"		62.0	62.0	80.0	80.0
74"		62.0	62.0	80.0	80.0
26-1/2"	63" (5)	62.0	62.0	80.0	80.0
37"		62.0	62.0	80.0	80.0
53-1/8"		62.0	62.0	67.9	67.9
74"		48.8	48.8	48.8	48.8
26-1/2"	72" (6)	62.0	62.0	80.0	80.0
37"		62.0	62.0	65.4	65.4
53-1/8"		45.5	45.5	45.5	45.5
74"		32.7	32.7	32.7	32.7
24"	24" (2)	62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
48"		62.0	62.0	80.0	80.0
60"		62.0	62.0	80.0	80.0
24"	36" (3)	62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
48"		62.0	62.0	80.0	80.0
60"		62.0	62.0	80.0	80.0
24"	48" (4)	62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
48"		62.0	62.0	80.0	80.0
60"		62.0	62.0	80.0	80.0
24"	60" (5)	62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
48"		62.0	62.0	80.0	80.0
60"		62.0	62.0	69.6	69.6
72"	63" (5)	58.0	58.0	58.0	58.0
24"		62.0	62.0	80.0	80.0
36"		62.0	62.0	80.0	80.0
48"		62.0	62.0	75.2	75.2
60"	72" (6)	60.2	60.2	60.2	60.2
72"		50.1	50.1	50.1	50.1
24"		62.0	62.0	80.0	80.0
36"		62.0	62.0	67.2	67.2
48"	72" (6)	50.4	50.4	50.4	50.4
60"		40.3	40.3	40.3	40.3
72"		33.6	33.6	33.6	33.6

() = NO. OF ANCHORS PER JAMB

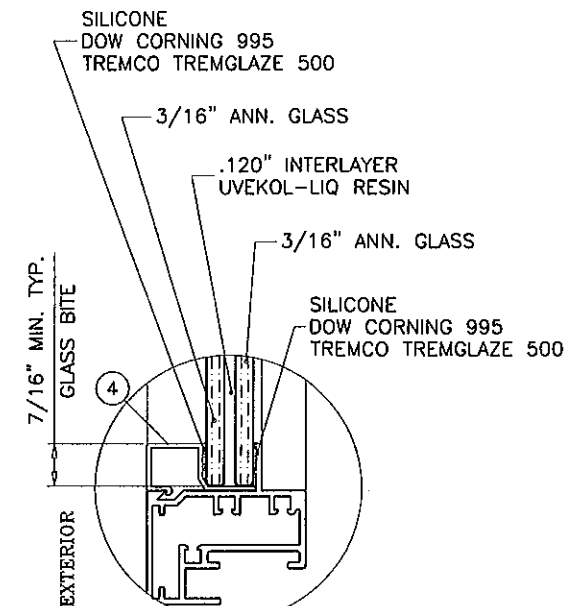
NOTE:
GLASS CAPACITIES ON THIS SHEET ARE
BASED ON ASTM E1300-04 (3 SEC. GUSTS)
AND FLORIDA BUILDING COMMISSION
DECLARATORY STATEMENT DCA05-DEC-219



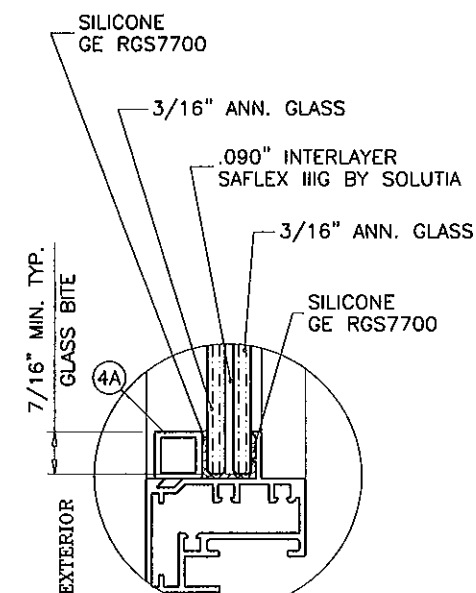
GLASS TYPE 'B'



GLASS TYPE 'D'

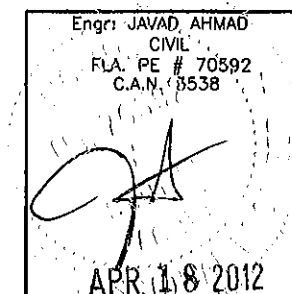


GLASS TYPE 'C'



GLASS TYPE 'E'

GLAZING OPTIONS



PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0309.04
Expiration Date MAY 1, 2013
By *Manuel Perez*
Miami Dade Product Control

AL-FAROOQ CORPORATION
ENGINEERS & PRODUCT DEVELOPMENT
1235 S.W. 87 AVE
MIAMI, FLORIDA 33174
TEL. (305) 262-6978 FAX. (305) 262-6978
COMP-ANL W06-30TMMW

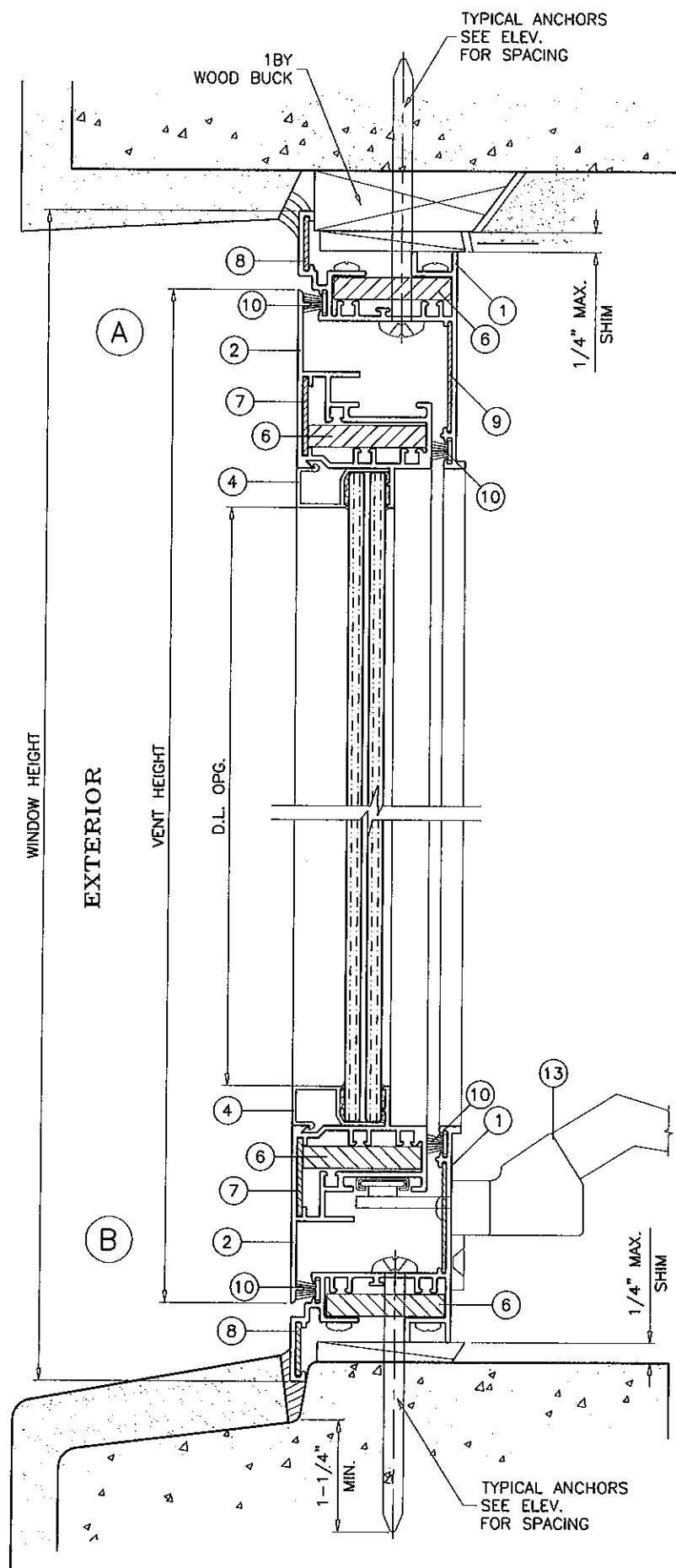
SERIES 515 ALUMINUM CASEMENT WINDOW (L.M.I.)

T.M. WINDOWS LLC.
601 N.W. 12TH AVE.
POMPANO BEACH, FL. 33069
TEL. (954) 781-4430 FAX. (954) 781-5078

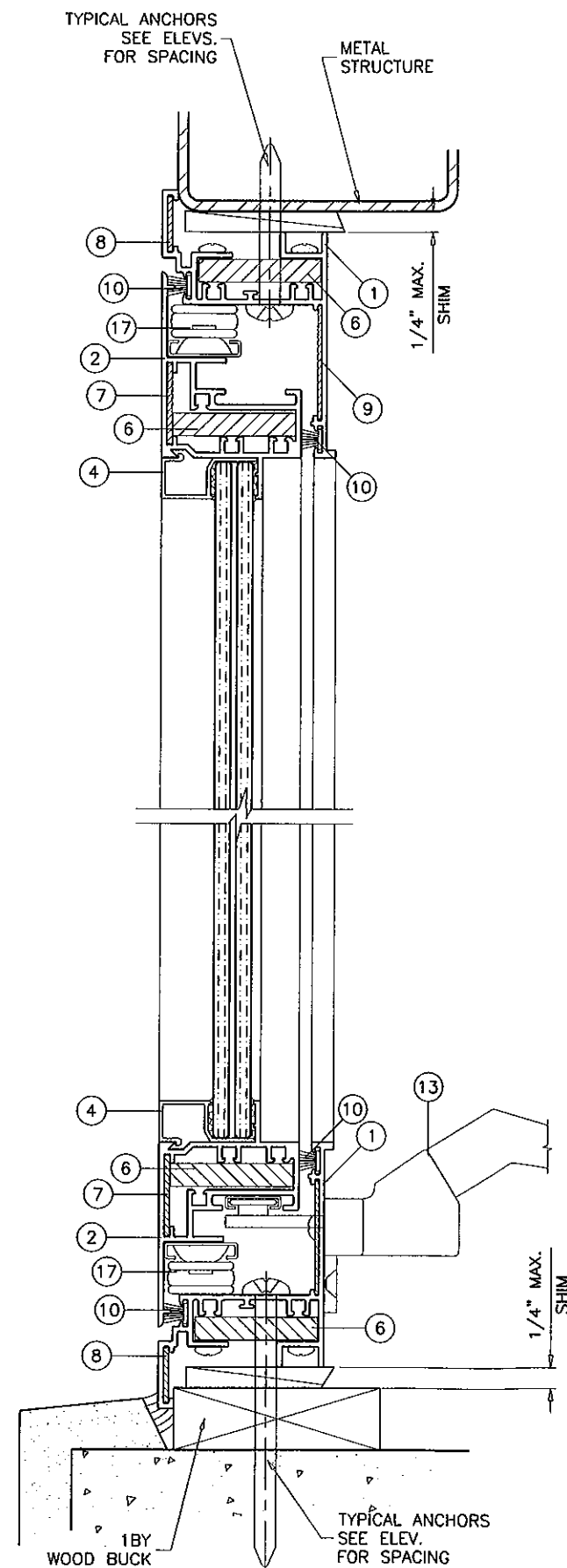
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date: 04-14-06
scale: 1/2" = 1"
dr. by: HAMID
chk. by:

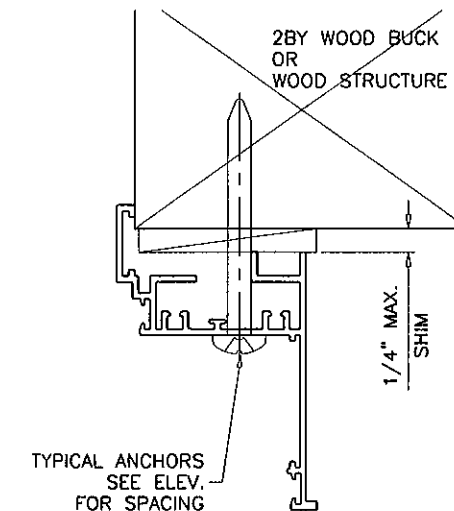
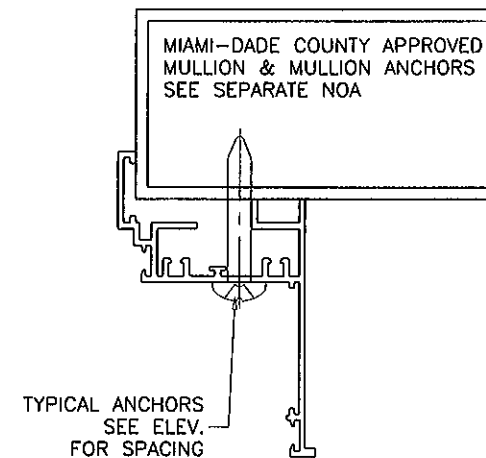
drawing no.
W06-30
sheet 2 of 6



BUTT HINGE OPTION



CONCEALED HINGE OPTION



WOOD BUCKS AND METAL STRUCTURE NOT BY TM WINDOWS MUST SUSTAIN LOADS IMPOSED BY GLAZING SYSTEM AND TRANSFER THEM TO THE BUILDING STRUCTURE.

TYPICAL ANCHORS: SEE ELEV. FOR SPACING

1/4" DIA. ULTRACON BY 'ELCO' ($F_u=177$ KSI, $F_y=155$ KSI)

INTO 2BY WOOD BUCKS OR WOOD STRUCTURES

1-3/8" MIN. PENETRATION INTO WOOD

THRU 1BY BUCKS INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONC. OR MASONRY

DIRECTLY INTO CONC. OR MASONRY

1-1/4" MIN. EMBED INTO CONC. OR MASONRY

#14 SMS OR SELF DRILLING SCREWS (GRADE 2 CRS)

INTO MIAMI-DADE COUNTY APPROVED MULLIONS (MIN. THK. = .090")
INTO METAL STRUCTURES

STEEL : 12 GA. MIN. ($F_y = 36$ KSI MIN.)

ALUMINUM : 1/8" THK. MIN. (6063-T5 MIN.)

(STEEL IN CONTACT WITH ALUMINUM TO BE PLATED OR PAINTED)

TYPICAL EDGE DISTANCE

INTO CONCRETE AND MASONRY = 1-1/2" MIN.

INTO WOOD STRUCTURE = 1" MIN.

INTO METAL STRUCTURE = 1/2" MIN.

CONCRETE AT HEAD, SILL OR JAMBS $f'_c = 3000$ PSI MIN.

C-90 HOLLOW/FILLED BLOCK AT JAMBS $f'_m = 2000$ PSI MIN.

SEALANTS:

ALL JOINTS AND FRAME CONNECTIONS SEALED WITH SILICONE OR ACRYLIC SEALANT.

Engr: JAVAD AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538
APR 18 2012

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0309.04
Expiration Date 12/1/2013
By *Mamud*
Miami Dade Product Control

SERIES 515 ALUMINUM CASEMENT WINDOW (L.M.I.)

T.M. WINDOWS LLC.

601 N.W. 12TH AVE.

POMPANO BEACH, FL. 33069

TEL (954) 781-4430 FAX (954) 781-5078

AL-FAROOQ CORPORATION

ENGINEERS & PRODUCT DEVELOPMENT

1235 S.W. 87 AVE

MIAMI, FLORIDA 33174

TEL (305) 264-8100 FAX (305) 262-6978

COMP-ANL W06-30TAW

revisions:

no	date	by	description
A	10.11.06	REV. PER BOCO COMMENTS	
B	01.11.08	GLASS & HARDWARE OPTIONS ADD.	
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D	02.23.12	NO CHANGE THIS SHEET	

date: 04-14-06

scale: 1/2" = 1"

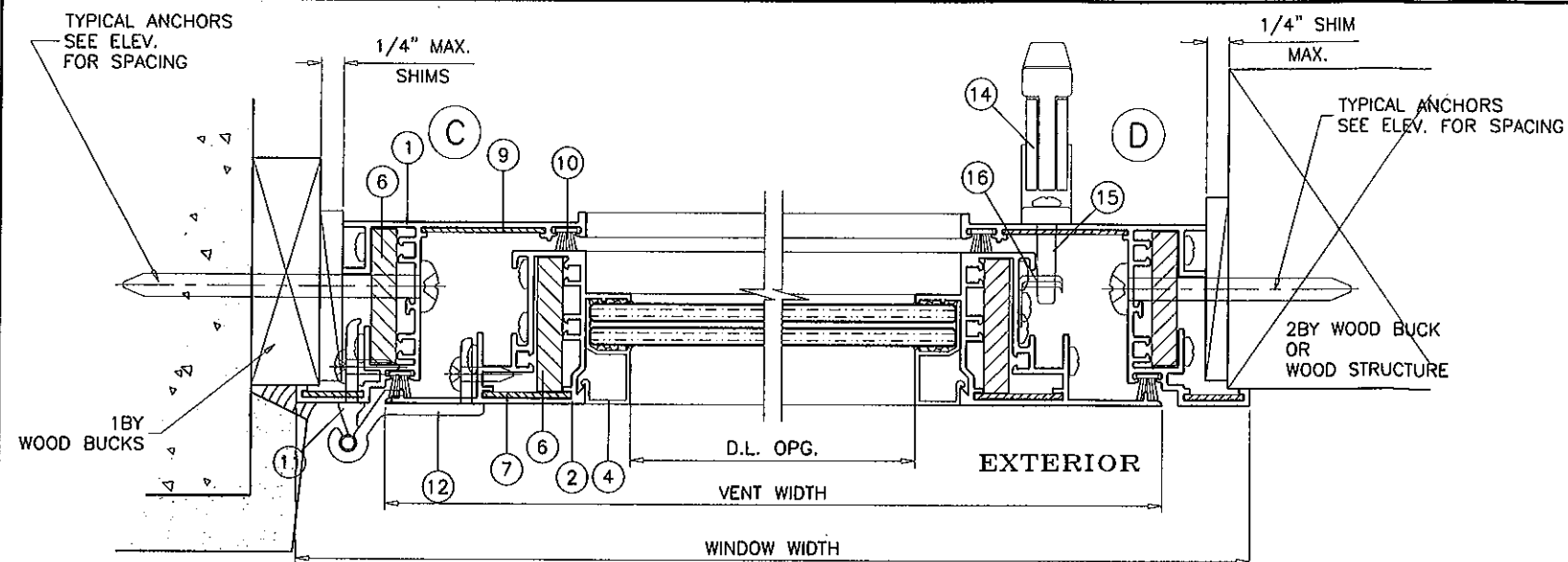
dr. by: HAMID

chk. by:

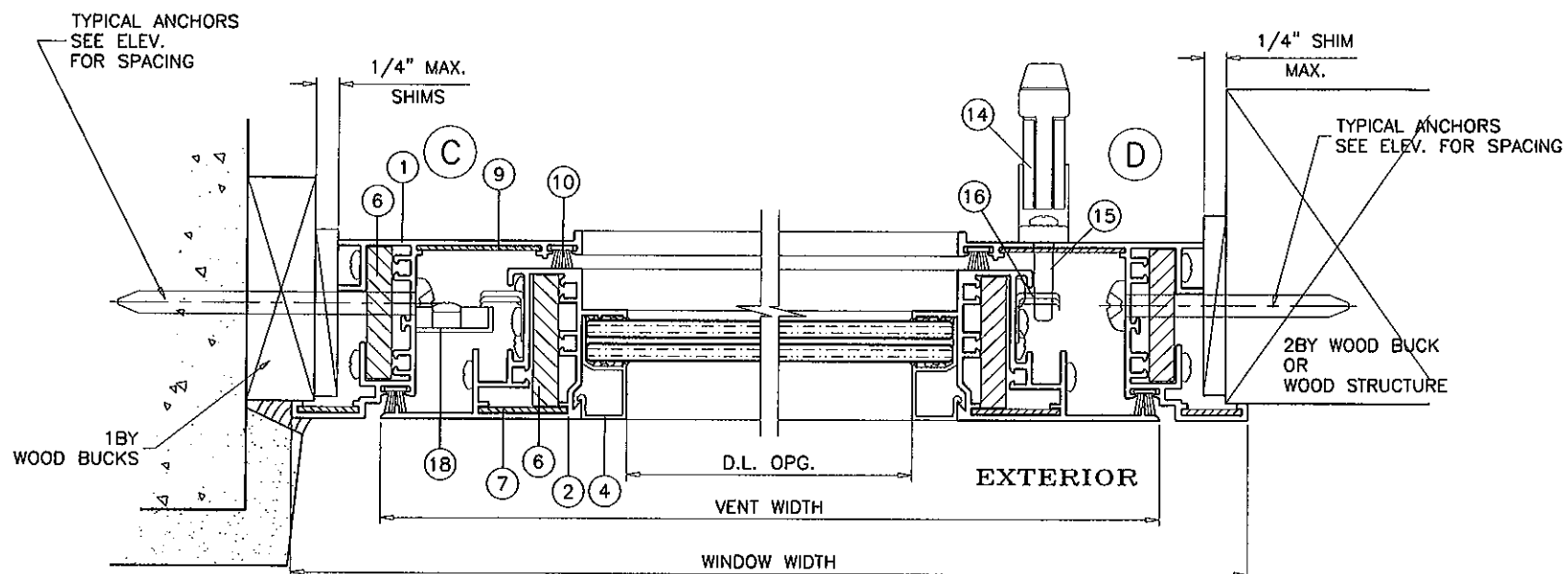
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W06-30

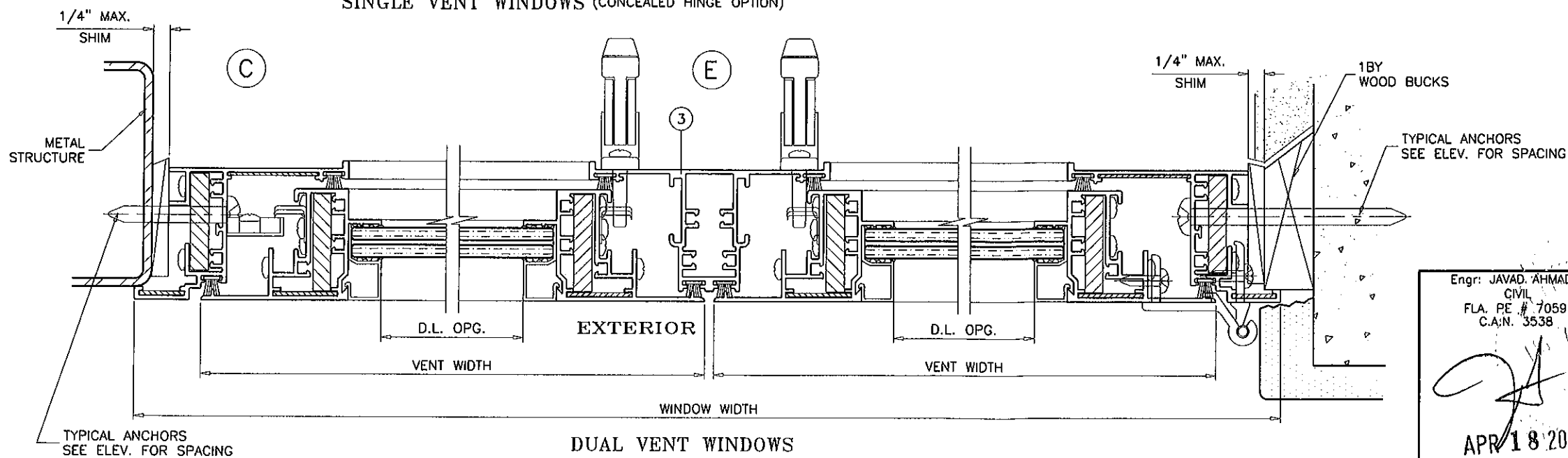
sheet 3 of 6



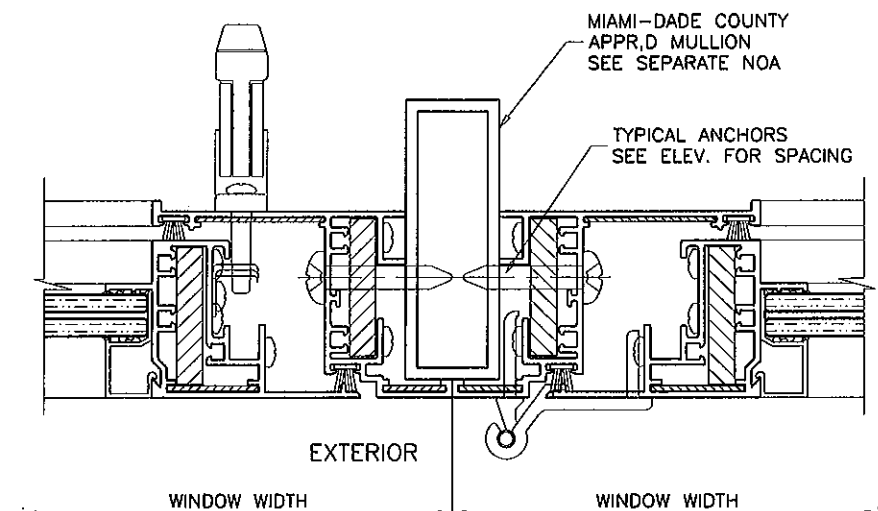
SINGLE VENT WINDOWS (BUTT HINGE OPTION)



SINGLE VENT WINDOWS (CONCEALED HINGE OPTION)



DUAL VENT WINDOWS



Engr: JAVAD, AHMAD
CIVIL
FLA. PE # 70592
C.A.N. 3538

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0309-04
Expiration Date MAY 1, 2013

By *Mamuel Ruiz*
Miami Dade Product Control

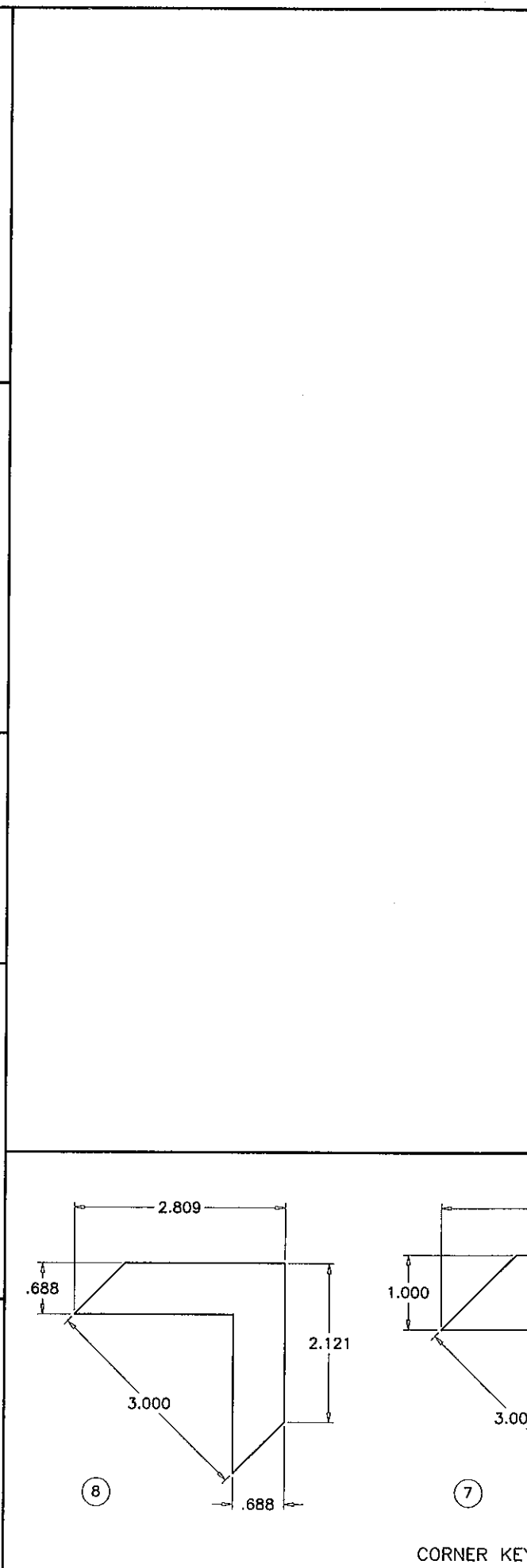
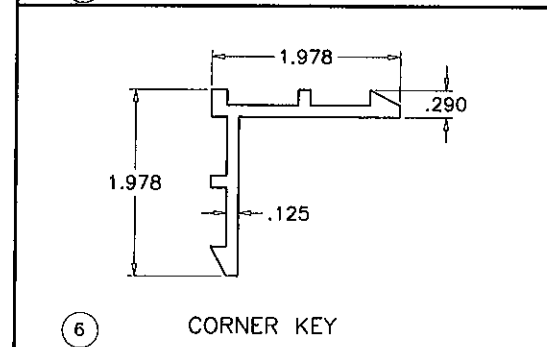
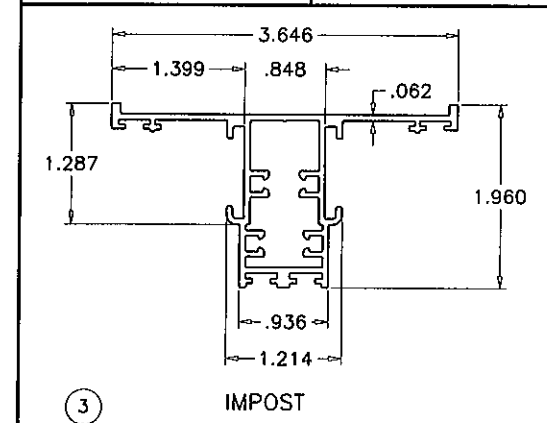
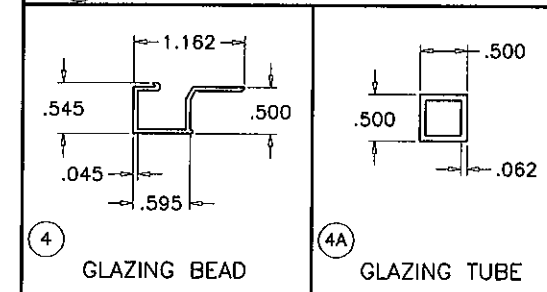
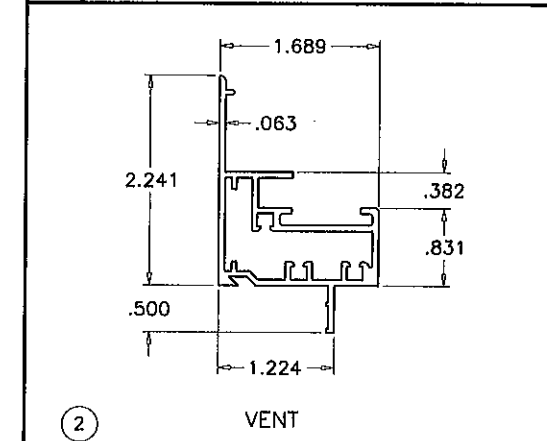
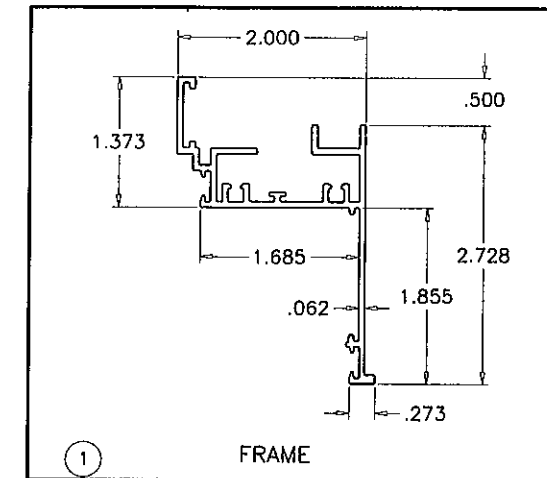
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af c
AL-FAROOQ CORPORATION
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COMP-ANL\W06-30TAW

SERIES 515 ALUMINUM CASEMENT WINDOW (L.M.I.)
T.M. WINDOWS LLC.
601 N.W. 12TH AVE.
POMPANO BEACH, FL. 33069
TEL (954) 781-4430 FAX (954) 781-5078

revisions:		no	date	by	description
A	10.11.06	REV. PER BCCO COMMENTS			
B	01.11.08	GLASS & HARDWARE OPTIONS ADD.			
C	08.27.09	UPDATED FOR 2007 FBC			
D	02.23.12	NO CHANGE THIS SHEET			

date: 04-14-06	scale: 1/2" = 1"	dr. by: HAMID	chk. by:
drawing no. W06-30			
sheet 4 of 6			



ITEM	PART #	QUANTITY	DESCRIPTION	MATERIAL	MANF./SUPPLIER/REMARKS
1	GW37528	4	FRAME	6063-T6	-
2	GW37526	4	VENT	6063-T6	-
3	GW37524	1	IMPOST	6063-T6	-
4	TM145	AS REQD.	GLAZING BEAD	6063-T6	-
4A	-	AS REQD.	GLAZING TUBE	6063-T6	-
5	#10 X 1-1/4"	2/ CORNER	FRAME/VENT ASSEMBLY SCREWS	ST. STEEL	PH SMS
6	SW27713	-	CORNER KEY	ALUMINUM	-
7	-	-	CORNER KEY (3 X 1 X .062" CHEVRON)	ALUMINUM	-
8	-	-	CORNER KEY (3 X 11/16 X .062" CHEVRON)	ALUMINUM	-
9	-	-	CORNER KEY (3 X 1-3/8" X .041" CHEVRON)	ALUMINUM	-
10	2230	AS REQD.	FRAME & VENT W'TRIPPING	FINSEAL	-
11	GW37521	AS REQD.	BUTT HINGE INTERIOR (FASTENED W/ (3) #10 X 3/8" PH SMS)	ALUMINUM	-
12	GW37522	AS REQD.	BUTT HINGE EXTERIOR (FASTENED W/ (2) #10 X 3/8" PH SMS)	ALUMINUM	-
13	23-65-32	-	ROTO OPERATOR (FASTENED W/ (4) #10 X 3/8" PH SMS)	-	TRUTH
14	24-11-32	AS REQD.	LEVER TYPE CAM LOCK (FASTENED W/ (2) #10 X 3/8" PH SMS)	-	-
15	21089	-	STRIKE KEEPER (FASTENED W/ (4) #8 X 1/2" TH SMS)	-	TRUTH
16	30238	AS REQD.	KEEPER (FASTENED W/ (2) #10 X 3/8" PH SMS)	-	-
17	300 SERIES	2/ VENT	3 BAR CONCEALED HINGE (FASTENED W/ (2) #10 X 3/8" PH SMS)	ST. STEEL	AT SASH TOP & BOTTOM
18	SB001/SB002	3/ VENT	4" LONG SNUBBER (FASTENED WITH (2) #8 X 1/2" HEX H SD SCREWS)	ZINC	AT HINGE RAIL

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By *Manuel Pera*
Miami Dade Product Control

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SERIES 515 ALUMINUM CASEMENT WINDOW (L.M.I.)

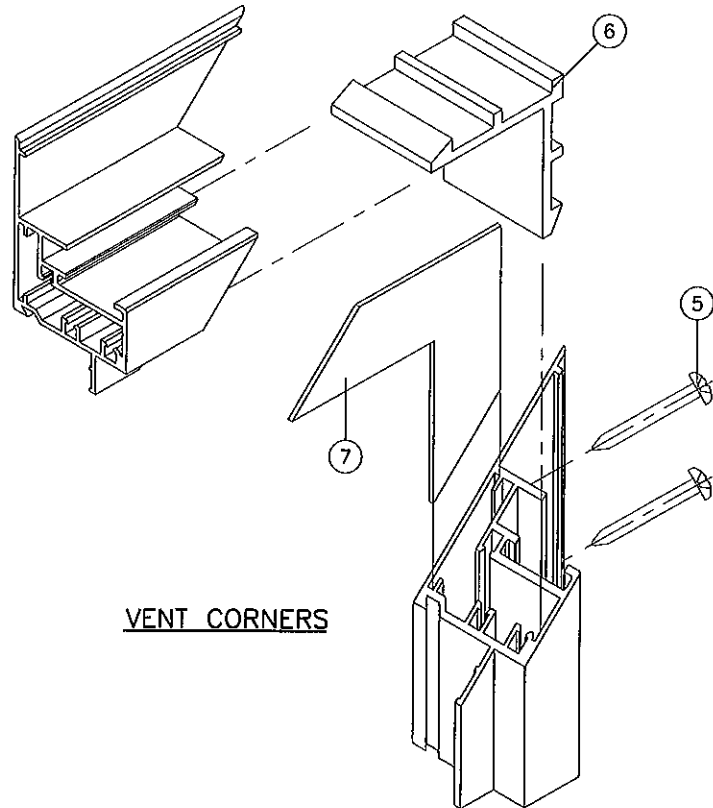
T.M. WINDOWS LLC.
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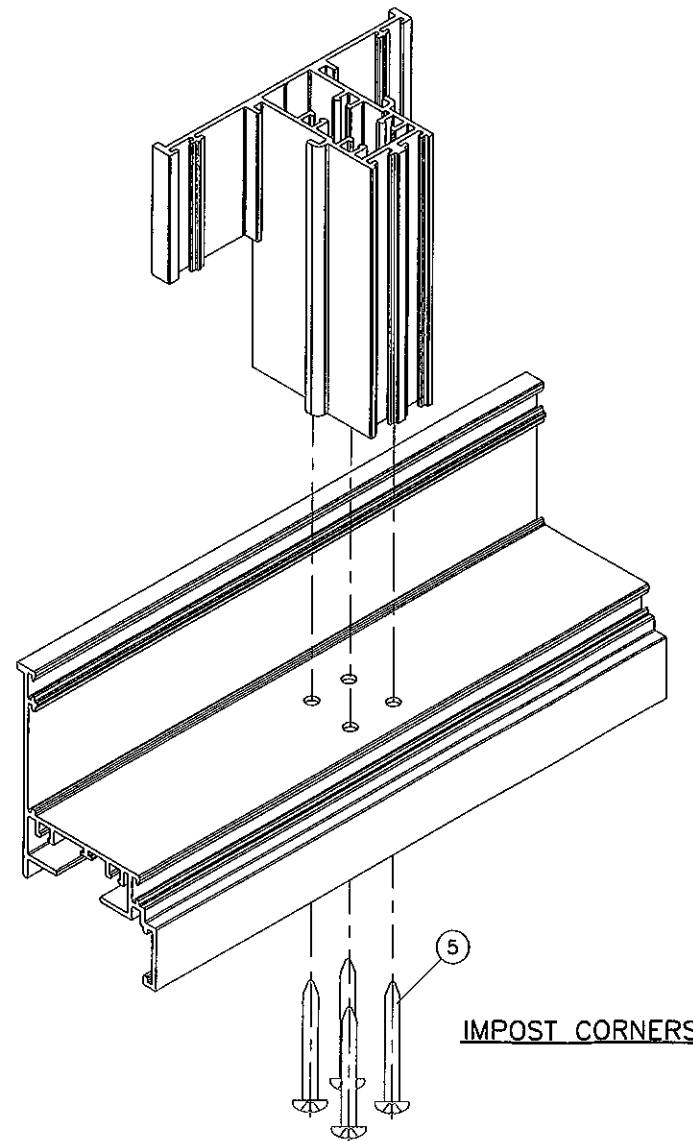
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chk. by:

drawing no.
W06-30

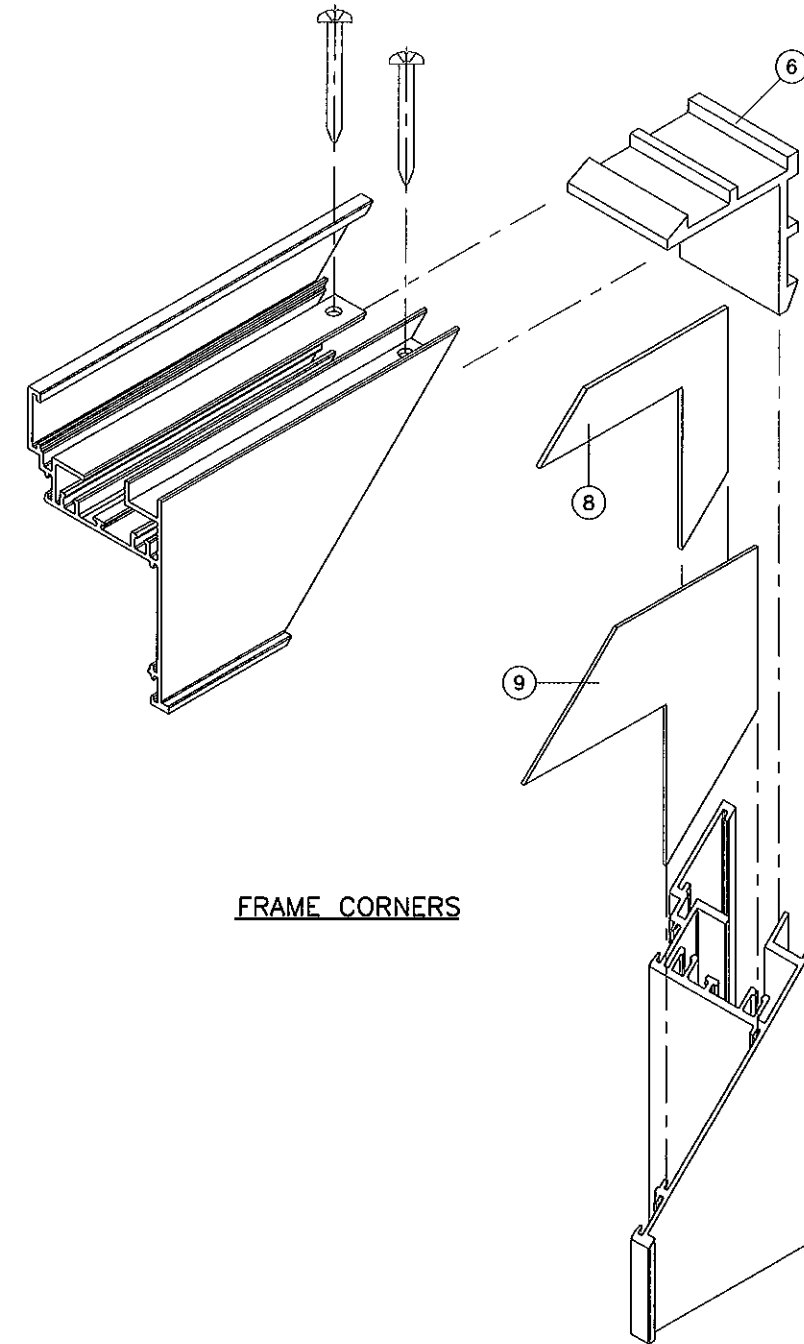
sheet 5 of 6



VENT CORNERS



IMPOST CORNERS



FRAME CORNERS

Engr: JAVAD AHMAD
CIVIL
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PRODUCT REVISED
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By *Manuel Suiz*
Miami Dade Product Control

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